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## DIFFRACTIVE INELASTIC SCATTERING OF <sup>6</sup>Li NUCLEI BY <sup>12</sup>C, <sup>28</sup>Si NUCLEI

Method of differential cross sections calculation has been proposed for inelastic diffractive scattering of clustered nuclei by even-even nuclei with excitation of low-lying collective states. The method satisfactorily describes the experimental angular distributions of inelastic scattering cross sections of <sup>6</sup>Li nuclei by <sup>12</sup>C and <sup>28</sup>Si nuclei with the excitation of 2<sup>+</sup> states (4,44 and 1,78 MeV, respectively).

Keywords: nuclear diffraction, clustered nuclei, inelastic scattering, low-lying collective states.